

C-6.10 Interpret solubility curves to determine saturation at different temperatures.

Revised Taxonomy Levels 2.1 B Represent (interpret) conceptual knowledge

Students did not study this concept in physical science

It is essential for students to

- ❖ Compare the solubility curves of selected solids dissolved in water
 - Understand that the solubility of most solids is directly proportional to temperature, however the degree to which temperature affects the solubility of a solid varies with the structure of the solid
- ❖ Compare the solubility curves of gasses in water
 - Understand that the solubility of most gasses is inversely proportional to temperature, however the degree to which temperature affects the solubility of a solid varies with the structure of the solid

Assessment

The verb for this indicator is interpret (represent) the major focus of assessment will be for students to “change from one form of representation to another.” In this case, the students should be able to describe the effect that temperature has on the solubility of solids and gasses from a graphical representation. As this indicator is classified as conceptual knowledge, it is vital that students can apply their knowledge of solubility to a solubility graph.